Biogas - CO2

RECIPROCATING GAS COMPRESSORS

MADE & DESIGNED IN ITALY





Via Ponticelli, 5-7, 43029 Traversetolo (PR), Italy



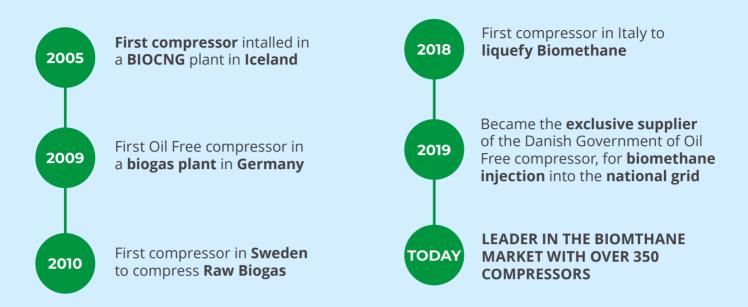
www.fornovogas.it info@fornovogas.it

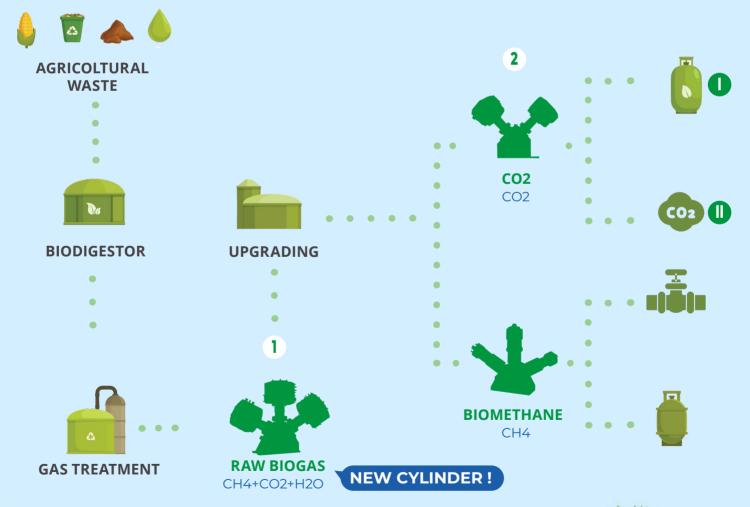


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Our History in Biomethane







Performance Analysis

COMPRESSOR MODEL

TYPICAL CAPACITY

HIGH CAPACITY



RAW BIOGAS

DA300

CH4+CO2+H2O

INLET PRESSURE	0,15 bar g
OUTLET PRESSURE	15 bar g
FLOW RATE	500 Nm3/h
SHAFT POWER	91 kW

0,15 bar g
15 bar g
1379 Nm3/h
195 kW



CO₂

DA300

CO2

INLET PRESSURE	0 bar g
OUTLET PRESSURE	19 bar g
FLOW RATE	475 Kg/h
SHAFT POWER	39 kW

: ML

MALIE

0 bar g	
19 bar g	
1000 Kg/h	
91 kW	

Why choose Fornovo Gas

ENERGY EFFICIENCY



In the long term, Fornovo Gas will deliver significant savings by **reducing** the **energy costs** required for operation.



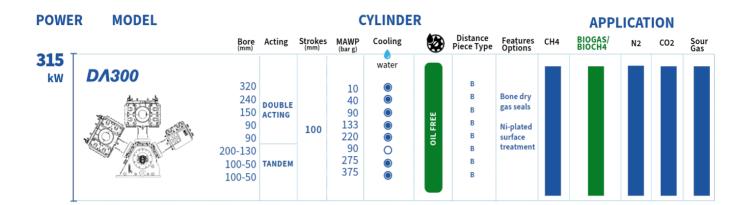
ALL

OIL - FREE

We ensure the complete **absence of oil traces** in the compressed gas, a **critical requirement** for this application.



RAW BIOGAS



OIL - FREE



DISTANCE PIECE TYPE B according to API 618



NO FILTER REQUIRED downstream of the compressor



NO CONSUMPTION of Crank Lubrication Oil



NO OIL TRACES in the compressed gas



LOW PRESSION COMPRESSOR FOR RAW BIOGAS

Fornovogas has developed an innovative compressor designed to compress the gas to the pressure required by upgrading systems, ensuring optimal efficiency for various treatment methods.



UP TO 8 BAR

For water washing, amine treatment, or PSA technology

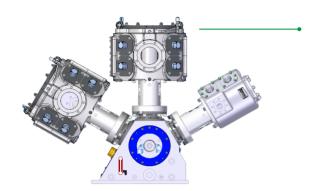


UP TO 16 BAR

For membrane treatment

Cylinders

These specially treated cylinders are designed to efficiently compress **raw biogas** before upgrading, handling **humid gases** at high power (up to 315 kW) and speed (up to 1200 rpm) for optimal performance in the toughest conditions.



CYLYNDER D13

The D13 cylinder is designed to be **sturdy** and **durable**, made from ductile cast iron, ion-nitrided alloy steel, and hardened alloy steel.

Advantages



TECHNICAL SPECIFICATIONS

2 SUCTION VALVES FOR EACH EFFECT

To operate without plenty of pressure drops.

SPECIAL SEALS

To operate efficiently at high discharge temperatures.

WATER COOLING CANALS

Metallically separated from process gases to reduce the risk of leakage.

Energy Efficiency

MAIN DATA

SUCTION	0,1 Bar
DISCHARGE	16 Bar
FLOWRATE	1100 Nm3/h

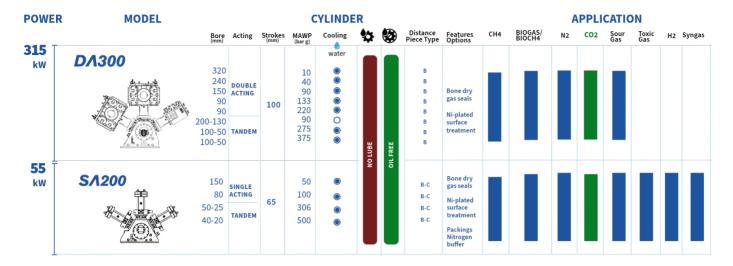
	FORNOVO GAS	OTHER COMPRESSOR TECHNOLOGY
SHAFT POWER	157 kW	180 kW
COMPRESSOR PLANT	170 kW	200 kW

ESTIMATE MONTHLY SAVING

21.000 kWh



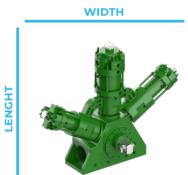




DA300

2 cylinders Dimensions: 1153 x 1660mm * Measurements can differ based on the selected bore size.

SA200



Dimensions: 1030x1380mm

* Measurements can differ based on the selected bore size.



RECIPROCATING CO2 COMPRESSOR

DA300 and **SA200** compressors are designed for efficient **CO2 treatment**, ideal for applications in **gas recovery**, **liquefaction**, and food and beverage industries.

They provide reliable, **high-performance** gas compression for optimized CO2 management.



CO2 LIQUEFACTION

CO2 is compressed to 20 bar and liquefied for easier transport to other sites.



CO2 RECOVERY

CO2 is compressed to a typical pressure of 20 bar, enebling the efficient storage of CO2.

References



BIOGAS

PACKAGE: SKID

MODELLO COMPRESSORE: DA300 Oil-Free

PRESSIONE D'ENTRATA: 0,2 bar **PRESSIONE D'USCITA:** 6 bar

PAESE DI INSTALLAZIONE : SVEZIA



CO2 LIQUEFACTION

PACKAGE: SKID

COMPRESSOR MODEL: DA300 Oil-Free

INLET PRESSURE: 0,4 bar **OUTLET PRESSURE:** 15 bar

INSTALLATION COUNTRY: ITALY

Advantages





To Learn More About Our Compressors





SCAN

To see Sonny & Mizu Calendar.





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